TINYAKOV, G.G.; TINYAKOV, Yu.G.

Spontaneous chromosome mutations under normal and pathological conditions. Dokl.AN SSSR 134 no.1:187-190 S '60.

(MIRA 13:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Predstavleno akad. I.I.Shmal'gauzenom. (Chromosomes)

CIA-RDP86-00513R001755810008-6" APPROVED FOR RELEASE: 07/16/2001

TINYAKOV, G.G.; GRANIKOV, D.A.; MIKHEYEVA, G.A.

Microstructure of hard rennet cheeses. Izv. vys. ucheb. zav.; plehch. tekh. no.4:68-74 '61. (MIRA 14:8)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti, kafedra tekhnologii moloka i molochnykh produktov (Cheese)

TINYAKOV, G.G.; TINYAKOV, Yu.G.

Origin of cancer in the light of proliferative variability of normal cells. Dokl. AN SSSR 141 no.4:998-1001 D 161. (MIRA 14:11)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti i Institut terapii Akademii meditsinskikh nauk SSSR. Predstavleno akademikom I.I. Shmal'gauzenom. (CANCER)

42683

27,1220

\$/747/62/000/000/004/025 D268/D307

AUTHORS:

Arsen'yeva, M. A., Tinyakov, G. G., Wang Ang-ch'ih, Ma

Hsiu-ch' uang and Chang Chun-shu

TITLE:

Cytogenetic radiosensitivity of sexual cells in monkeys

and mice at small and other dose levels

SOURCE:

Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk

AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 50-62

TEXT: In continuation of earlier work (Trudy mezhd. Konf. po mirnomu ispol'zov. atomnoy energii, M., 385-396, 1959) male monkeys (Nacaca mulatta: 16 5 - 14 year-old individuals) and 2 - 3 month-old white mice were wholebody irradiated with single exposures to x rays at 10 - 400 r for the former and 10 - 600 r for the latter and were

also irradiated with Co⁶⁰ gamma-rays at 10 and 50 r. Irradiation increased the chromosome reorganization rate in germinal cells in both subjects, the average rate being 0.115 and 0.057% in monkeys and mice respectively for 1 r at 10 days after exposure. Cytological and

Card 1/2

Cytogenetic radiosensitivity ...

S/747/62/000/000/004/025 D268/D307

histological analyses of testes at different times after irradiation showed disruption of spermatogenesis in monkeys after 10 r, temporary sterility at 30 days following 30 r, and at 20 days following 200 r. Temporary sterility was detected in mice at 20 days after thelium of monkeys than in mice. The rate of chromosome reorganization in monkeys at 10 days is thought to double at 3.8 r, and that epithelium in monkey is 2 - 2 1/2 times higher than that in mice. There are 9 figures and 2 tables.

ASSOCIATION:

Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics AS USSR, Moscow) and Institut biologicheskoy fiziki AN KNR, Pekin (Institute of Biological Physics AS CPR, Peking)

Card 2/2

BEM, Rudolf [Böhm, Rudolf]; PLEVA, Vladinir; VOL'SHANSKIY, H.I. [translator]; THEYAKOV, G.G., dektor biol. nauk, prof. red.; TSIPERSON, A.L., red.

[Microscopy of meat and raw material of animal origin. Translated from the Czech] Mikroskopiia miasa i syr'ia zhivotnogo proiskhozhdeniia. Izd.2., perer. i dop. Mcskva, Pishchevaia promyshlennost', 1964. 334 p. (MIRA 18:3)



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

TINYAKOV, G.G.; BULOCHNIKOVA, Ye.K.

Mitotic and chromosome-aberrational reaction of lymphatic ganglia caused by sarcoma 45. Dokl. AN SSSR 165 no.3:683-685 N '65. (MIRA 18:11)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Submitted May 20, 1965.

TINYAROW, C.C.

Wass of chromosomes of the salivery gland in Drosophile funebris.
Blul. MOIP. Otd. blcl. 70 no.4:141-144 Jl-Ag 165. (MIRA 18:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

TINYAKOV, G.G., prof.

Gregor Mendel, the founder of the science of heredity, 1822-1884; centennial of the foundation of experimental genetics. Veterinaria 42 ne-7:112-113 J1 165. (MIRA 18:9)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

Provided Control of the Control

TINYAKOV, G.G.; BULCCHNIKOVA, Ye.K.

Reaction of the bone marrow and spleen to the effect of Ehrlich's ascitic tumor. Dokl. AN SSSR 153 no.1:233-236 N '63. (MIRA 17:1)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Predstavleno akademikom I.I. Shmal'gauzenom.

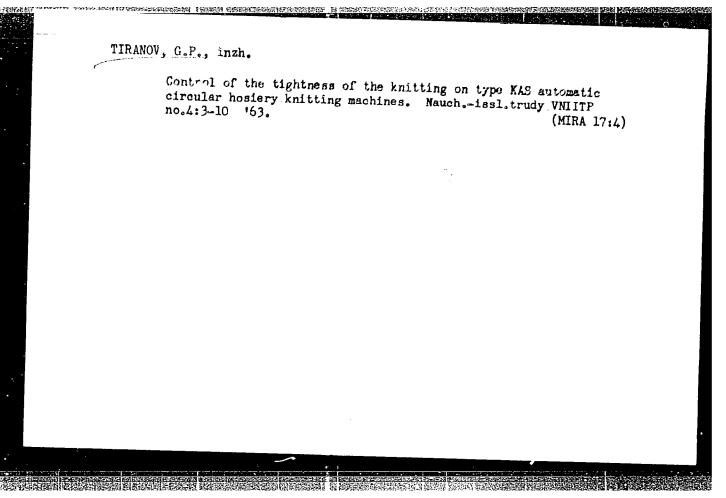
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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

TELENIN, G.F. (Moskva); TINYAKOV, G.P. (Moskva)

Nonstationary supersonic flow about a blunt cone. Izv.AN SSSR.Otd.
tekh.nauk.Mekh.i mashinostr. no.2:97-105 Mr-Ap '61. (MIRA 14:4)

(Aerodynamics, Supersonic)



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L 8810-65 EWT(1)/EPA(b)/FCS(k)/EWA(1) Pd ...4 AFETR/AEDC(a)/BSD/AFTC(a)/AFWL/E3D(dp:/ESD(gs)/ESD(t) ACCESSION NR: AP4043886 S/0179/ ASD(f)/ASD(a)/SSD/ASD(\$/0179/64/000/004/0009/0028 AUTHOR: Gilinskiy, S. M. (Moscow); Telenin, G. F. (Moscow); Tinyakov, G. P. TITLE: A method for calculating supersonic flow past blunt-nosed bodies with a detached shock wave SOURCE: AN SSSR. Izvestiya. Makhanika i mashinostroyeniya, no.4, 1964, 9-28 TOPIC TAGS: supersonic flow, shock wave, flow past blunt body, numerical method, supersonic perfect gas flow, equilibrium flow, non-ABSTRACT: A numerical method suggested by G. F. Telenin for calculating supersonic flow over blunt-nosed bodies with a detached shock wave is outlined. The authors present certain results from systematic investigations of supersonic flow of a perfect gas past bodies of various shapes, such as ellipsoids with various axis ratios, bodies with analytical contours of nearly toroidal shape with slightly rounded corners, bodies with concave contours near a critical point, bodies with contour-curvature discontinuities in the subsonic Card 1/2

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L 8810-65 ACCESSION NR: AP4043886

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region, and bodies with contour breaks at the sonic point. Flows over bodies of various shapes at Mach numbers tending to — and with adia—batic indices tending to one, and equilibrium and nonequilibrium air flows past a sphere are analyzed and discussed. The problem of supersonic flow with a detached shock wave is formulated, and the concepts of the method employed are outlined on the basis of analysis of properties of the solutions of elliptic and mixed, model linear equations. The same method is applied to the solution of the nonlinear, boundary-value problem formulated to the first section of the article. Examples illustrating applications of the method are presented and the results are summarized in graphs. Orig. art. has: Il figures and 52 formulas.

ASSOCIATION: none

SUBMITTED: 17Mar64

ATD PRESS: 310/

ENCL: 00

SUB CODE: ME. AS

NO REF SOV: 008

OTHER: 013

Card 2/2

GILINSKY, S.M. (Moskva); TELENIN, G.F. (Moskva); TINYAKOV, G.P. (Moskva)

Method for calculating a supersonic flow about blunt bodies
with a detached shock wave. Izv. AN SSSR Mekh. i mashinostr.
no.419-28 JI-Ag '64 (MIRA 1718)

Figure 2. The state of the section of which gas tast a special and the months of the section of which gas tast a special and the months of the section of th

L 15324-65 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1) Pd-1 AFWL/BSD/SSD(b)/SSD/AEDC(a)/ASD(f)-2/ASD(p)-3/AFETR/AFTC(a)/ESD(dp) S/0020/64/159/001/0039/0042

AUTHOR: Telenin, C. F.; Tinyakov, G. P.

TITLE: Investigation of supersonic flow of air and CO2 at thermal equilibrium past a sphere

SOURCE: AN SSSR. Doklady*, v. 159, no. 1, 1964, 39-42

TOPIC TAGS: supersonic flow, shock wave, thermal equilibrium flow, supersonic flow past sphere, shock detachment, dissociation

ABSTRACT: The results are presented of a numerical investigation of supersonic flow around a sphere by a mixture of air and $\rm CO_2$ considered to be in thermal equilibrium. Calculations were carried out on a computer for a wide range of flow parameters (M $^{\infty}$, 3 to 50; pressures, 10^{-5} to 1 atm; temperature, 200 to 1500K). A system of differential equations describing the adiabatic motion of a gas in thermal equilibrium is derived and solved by the method of finite difference, on the basis of multiple solutions of the Cauchy problem in the direction from the shock wave to the body. Analysis of flow fields obtained in a flow of perfect gases with different adiabatic exponents over blunt-

Card 1/2

中心,中心,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也不是一个人,他们也没有一个人,他们是一个人,他们是这种的人,他们是一个人,他们

L 15324-65

ACCESSION NR: AP4049124

nosed bodies shows that in all subsonic regions, and especially near the symmetry axis, density changes comparatively slowly and differs very little from its value behind the snock. The dependencies of shock detachment on density ratio and also on pressure and temperature are given in graphs. It is stated that dissociation, and consequently the dependence on pressure, begin at M = 6-8. Orig. art. has: 4 figures, 3 tables, and 3 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut mekhaniki Moskovskogo go Judarstvennogo universiteta im. M. V. Lomonosova (Scientific Research Institute of Mechanics, Moscow State University)

SUBMITTED: 23Apr64

ENCL: 00

SUB CODE: ME, AS

NO REF SOY: 004

OTHER: 000 ATD PRESS: 3138

Card 2/2

D'YAKONCV, Yu.N.; TELENIN, G.F.; TINYAKOV, G.P. (Moscow):

的。 第一种,我们就是一个人,我们就是一个人,我们们就是一个人,我们们就是一个人,我们就是一个人,我们就是我们的,我们就是我们的,我们就是我们的人,我们就是我们的

"Study of three-dimensional flow past bodies with detached shock wave."

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

The state of the s

TELENIN, G.F.; TINYAKOV, G.P.

Method for calculating a three-dimensional flow past bodies. following the passage of a shock wave. Dokl. AN SSSR. 154 (MIRA 17:2)

1. Predstavleno akademikom G.I. Petrovym.

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s/179/61/000/002/008/017 E081/E141

AUTHORS:

Telenin, G.F., and Tinyakov, G.P. (Moscow)

TITLE:

Unsteady supersonic flow past a cone with a blunt

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1961, No.2,

TEXT: The supersonic flow past the spherical-conical body ABC (see Fig.1) is analyzed. The spherical part of the body is AB and merges into the conical part at B. The semi-angle of the cone is $\theta_{\mathbf{s}}$; ME is the density discontinuity in the gas, and QP is the accustic line. The body is subjected to small vibrations about the point 0 given by $\alpha = \alpha_0 \cos \omega t$, where α is the instantaneous angle of attack. It is assumed that $\alpha_0 \leqslant 1$, $\omega L/V_i \ll 1$, where V_i is the velocity of the gas stream; that point B always lies in the supersonic region; and that the velocity V, pressure p and density o in the gas stream can be

Card 1/3

Lotting 4

limsteady supersonic flow past a cone with a blunt vertex

 $w = w_0 + \alpha w_\alpha + \alpha w_\alpha$, $p = p_0 + \alpha p_\alpha + \alpha' p_\alpha$,

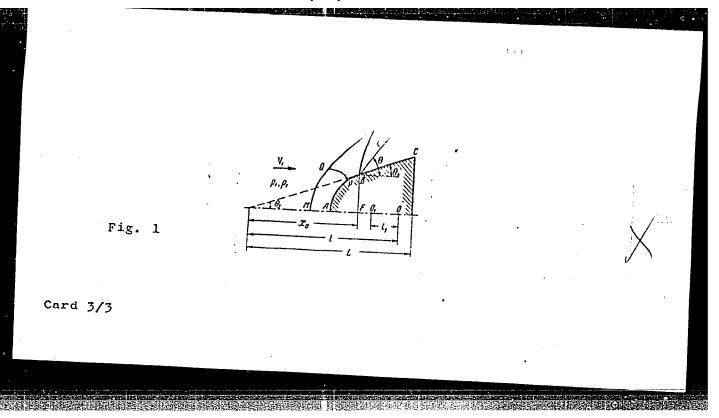
 $e = e_0 + \alpha e_\alpha + \alpha e_\alpha$

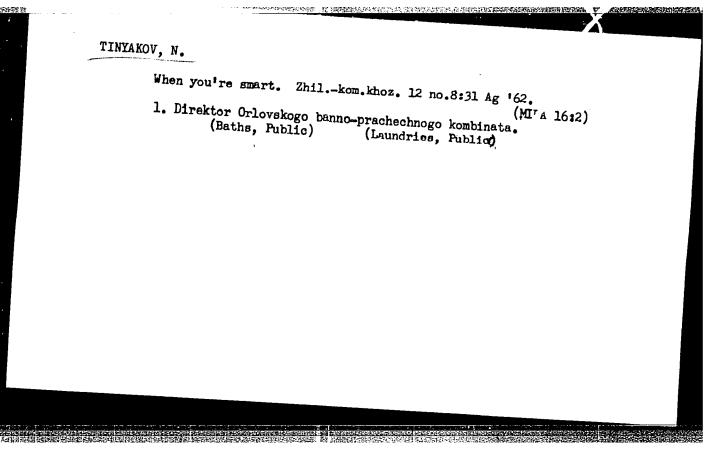
On this basis, the flow is analyzed separately in the two regions ABDM and DBC, the first corresponding to flow past a sphere, and the second to flow past a cone. In each region, the solutions satisfy the gas-dynamic equations and the boundary conditions. The two solutions are combined so as to satisfy the conjunction of a sphere and a cone at B, and are used to find expressions for the aerodynamic moment M2 acting or the body when vibrating in a supersonic field. The quantities determining M2 are calculated for Mach 4, and are plotted against \$\langle L \text{ for various values of the semi-angle of the cone. The coefficients are also determined for a

There are 5 figures and 2 Soviet references.

SUBMITTED: December 10, 1960

Card 2/3





L 10936-66 EWT (1)/EWP(m)/EWA(d)/FCS(k)/ETC(m)/EWA(1) ACC NR: AP6002315 SOURCE CODE: UR/0373/65/000/006/0010/0019 44155 AUTHOR: Tinyakov, G. P. (Moscow) ORG: none TITLE: Investigation of a three-dimensional supersonic flow past ellipsoids of SOURCE: AN SSSR. Izvestiya. Mekhanika, no. 6, 1965, 10-19 TOPIC TAGS: supersonic flow, three dimensional flow, shock wave, detached shock wave, flow analysis, numeric integration, is flow, gas flow, thent body, ABSTRACT: This article gives the results of a theoretical investigation of a three-dimensional supersonic flow with a detached shock wave past ellipsoids of revolution. based on the method of numerical integration of equations of Rasdynamica developed by G. F. Telenin and the author (Akademiya nank, bokindy, v. 174, no. 7, 1964). A detailed outline of the method (Akadomiya nank, Doklady, v. 134, no. 5, 1964). A honed builtine of the method for ententialing around; that was those past than the mileson's and superposite regions to all outlines past than the superposite regions to all outlines the past of the superposite regions to all outlines the past of the superposite regions to all outlines that the past of the superposite regions to all outlines the past of the superposite regions to all outlines the past of the superposite regions the past of the superposite regions the past of the superposite regions and the superposite regions are superposited as the superposite regions and the superposite regions are superposited as the superposite regions and the superposite regions are superposited as the superposite regions and superposite regions are superposited as the superposited as t

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RUTSKIY, Aleksandr Ivanovich; ZAGOROVSKIY, Ye.N., kand. tekhn. nauk, prepodavatel; RUMYANTSEV, Yu.G., inzh., prepodavatel; SKVARKO, E.A., inzh., prepodavatel; red.; TINYAKOV, N.A., kand. tekhn. nauk, dots., red.; VARENIKOVA, V., tekhn. red.

[Electric power plants and substations; principal electrical equipment] Elektricheskie stantsii i ppdstantsii; osnovnoe elektricheskoe oborudovanie. Minsk, Gos.izd-vo BSSR. Red. nauchnotekhn. lit-ry, 1962. 423 p. (MIRA 16:3)

l. Kafedra elektricheskikh stantsiy Belorusskogo politekhnicheskogo instituta (for Zagorovskiy, Rumyantsev). (Electric power plants) (Electric substations)

S/143/60/000/007/011/012/XX D271/D305

AUTHORS:

Zhunina, L.A., Tinyakov, N.A., Candidates of Technical

Sciences, Docents

TITLE:

New glass for high-voltage insulators

PERIODICAL:

Izvestiya vysshikh uchebnych zavedeniy. Energetika,

no. 7, 1960, 51-55

TEXT: The article reports on work carried out at the Belorusskiy politekhnicheskiy institut (Belorussian Polytechnic Institute). An increasing demand for insulators in all regions of the Soviet Union and the resulting difficulty in satisfying local needs prompted the BSSR to organize its own production of insulators. The materials problem was solved by utilizing glass. Glass insulators have the following advantages: 1) A higher electric and mechanical strength compared to porcelain which makes it possible to reduce the size of glass insulators; 2) Smaller sized glass insulators make it possible to reduce metal consumption for reinforcement and the sizes of poles or with equal poles, to increase the span; 3)

Card 1/5

New glass for high-voltage insulators $\frac{S/143/60/000/007/011/012/XX}{D271/D305}$

Glass insulators are made of widespread cheap raw materials; 4) The technology of glass insulators permits overall automation of the production process at lower costs than those for porcelain insulators; 5) The application of hardened suspension glass insulators eliminates the need for their inspection during the service by means of a rod or other methods; 6) Testing finished hard glass insulators is much simpler than testing porcelain insulators and can be fully mechanized; 7) Capital investments are lower than for a comparable volume of production of porcelain insulators. Studies on optimum glass composition for high-voltage insulators are being carried out at the Belorussian Polytechnic Institute. Based on preliminary experiments it was decided to seek such an optimum composition in the SiO₂-Al₂O₃-CaO-MgO-NaO system. As raw materials for glass of this system such widespread materials can be used as quartz sand, kaolin, dolomite, limestone, manganese ore. Nine sand kaolin-chalk-dolomite-pyrosulite and three sand-kaolin-dolomitepyrolusite mixtures (Table 1) were processed under the following conditions: charge beginning at 1300°C, charge end at 1200°C, temperature raised over 1 hour to 1380-1420°C, exposure at this tem-Card 2/5

New glass for high-voltage insulators S/143/60/000/007/011/012/XX D271/D305

perature during 0.5 - 1 hour, temperature reduction to 1300° during 1 hour, yield at 1300-1320°C. It was established that almost all types of glass of this series show good processing properties; they can be easily cast, pressed, rolled and drawn to threads. The interval of technological viscosity is sufficient for products of, a complex configuration. The following characteristics of the glass types were investigated: 1) Technological characteristics: founding and yielding capacities (visually); 2) Physico-chemical properties: crystallizing capacity (polythermic method), softening temperature (I.I. Kitaygorodskiy's device) Abstracter's note: Not linear expansion coefficient (tubular dynamometer), chemical resistance to water and to binormal sodium solution (powder method recommended by VNIIS); 3) Mechanical characteristics: microhardness and microtransparency (TMT (PMT) -3 device); 4) Electric characteristics, determined according to GOST 6433-52: specific resistance (galvanometer and F-57 ohmmeter), dielectric phase angle tangent and dielectric permeability (MAT (MDP) high-voltage bridge), electric strength (60 kilovolts, 5 kilowatts testing unit). Four glass Card 3/5

New glass for high-voltage insulators S/143/60/000/007/011/012/XX D271/D305

compositions with the best technological, physico-chemical and electric properties have been selected for further tests under industrial conditions. There are 2 tables and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

	and the state of t											
Table 1 Legend: (1) Composition Homeya			Collingia, nec. 9.					Cremin, nec. " [7]				
of experimental charges and glass	стекол (2)	Песок (3)	Каолин (4)	Мел (6)	Доломит (7)	Пиролю- зит (ў)		Al ₂ O ₃	CnO	MgO	MnO	:
(2) Number of glass; (3) Sand;	19/1	31,47	12,65	10,90	45,72	11,12	55,00	5,00	20,00	10,00	10,00	
(4) Kaolin; (5)	19/11	31,47	12,65	1,94	45,72	,16,65	55,00	5,00	15,00	10,00	15,00	
Charge (weight):	19/III 19/IV	43,20	25,40	14,28	22,86	16,65	55,00	10,00	15,00	5,00	15,0Q	
(6) Chalk; (7)	19/1V 19/V	32,04 37,34	25,40		68,58	5,55	55,00	10,00	15,00	15,00	5,00	
Dolomite; (8) Py-	19/VI	37,34	37,95 37,95	1,94	45,72	5,55	55,00	15,00	15,00	10,00	5,00	
rolusite; (9) Glass (weight %).	19/VII	31,47	50,60	14,28	22,86 22,86	11,12 5,55	55,00	15,00	15,00	5,00	10,00	ľ
	19/VIII	37,34	37,95		68,58	5,55	55,00 55,00	20,00 15,00	15,00	5,00	5,00	
	19/IX	37,34	37,95	_	45,72	11,12	55.00	15,00	10,00	15,00 11,00	5,00	
	19/X	37;34	. 37,95	9,52	22,86	16,65	55,00	15.00	10.00	5,00	10,00	ĺ
Card 4/5	19/XI .	37.34	37,95	23,22	22.86	5,55	55,00	15.00	20,00	5,00	15,00 5,00	
	19/XII	31,47	12,65	14,28	22,86	22,24	55,00	5,00	15,00	5.00	20,00	٠.
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S/143/60/000/007/011/012/XX D271/D305 New glass for high-voltage insulators

ASSOCIATION:

Belorusskiy politekhnicheskiy institut (Belorussian Polytechnic Institute)

THE REPORT OF THE PROPERTY OF

PRESENTED:

On February 16, 1960 by the Kafedry tekhnologii stekla i silikatov i tekhniki vysokikh napryazheniy (Departments for Glass and Silicate Technology and High-Voltage Engineering)

Card 5/5

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RUTSKIY, A.I., kand. tekhn. nauk, zasl. deyate' nauki i tekhniki
BSSR; ZAGOROVSKIY, Ye.N., inzh.; SLEPYAN, Ya.Yu., kand.
tekhn. nauk; NOVASH, V.I., kand. tekhn.nauk; TINYAKOV, N.A.,
kand. tekhn. nauk; POL'SKIY, S., red.; KALECHITS, G., tekhn.
red.; DOMOVSKAYA, G., tekhn. red.

[Electrician's manual] Spravochnoe posobie clektromontera.
2., perer. izd. Pod red. A.I.Rutskogo. Minsk, Gos. izd-vo
BSSR. Red. nauchno-tekhn. lit-ry, 1961. 377 p.

(MIRA 15:4)

(Electric engineering-Handbooks, mamuals, etc.)

ZHUBINA, L.A., dotsent, kand.tekhn.nauk; TINYAKOV, N.A., dotsent, kand. tekhn.nauk

New types of glass for high-voltage insulators. Izv. vys. ucheb. (MRA 13:8)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedrami tekhnologii stekla i silikatov i tekhnik vysokikh napryazheniy.

(Electric insulators and insulation)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

ATABEKOV, G.I.; BASHARIN, A.V.; BOGORODITSKIY. N.P.; BULGAKOV, K.V.;
VASIL'YEV, D.V.; YEGITAROV, I.V.; YERMOLIN, N.P.; KOSTEMKO, M.F.;
MATKHANOV, P.N.; NOVASH, V.I.; NORNEVSKIY, B.I.; RITSKIY, A.I.;
RIZHOV, P.I.; SOLOV'YEV, I.I.; SOLONIKOV, G.S.; SIEPYAN, YA.FI.;
SMUROVA N.V.; TINYAKOV, N.A.; FATEYEV, A.V.; FELOSEYEV, A.M.;
SHABADASH B.I.; SHCHEDFIN, N.N.

Viktor Ivanovich Ivanov, 1900-1964; obituary. Izv. vys. uchab.

zav.; energ. 8 no.1:122-123 Ja '65.

(MIRA 18:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

ALC: NO.

STEPANCHUK, K.F., inzh.; TINYAKOV, N.A., kand. tokhu. nauk, dotsont

Puncture of transformer oil in a flow. Izv. vys. ucheb. zav.;
energ. 7 no.12:13 D 164.

1. Belorusskiy politekhuicheskiy inutitut. Predstavlena kafedroy
tekhniki vysokikh napryazheniy.

TINYAKOV, Nikolay Arsen'yevich; VANCHUK, L., red.; VARENIKOVA, V., tekhn. red.

生光期短针线

[New materials in electric power engineering] Novye materialy v elektroenergetike. Minsk, Izd-vo "Belorus"," (MIRA 17:2)

SLEPYAN, Ya.Yu., kand.tekhn.nauk, dotsent; TINYAKOV, N.A., kand.tekhn.nauk, dotsent

"Development of Power Engineering in White Russia" by I.F. Voloshina. Reviewed by IA. IU. Slepian and N. A. Tiniakov. Izv. vys. ucheb. zav.; energ. 5 no.9:130-131 S '62. (MIRA 15:10)

1. Belorusskiy politekhnicheskiy institut.
(White Russia-Power engineering) (Voloshina, I.F.)

STEPANGHUK, K.F., inzn.; TINYAKOV, N.A., kand.tekhn.nauk, dotsent

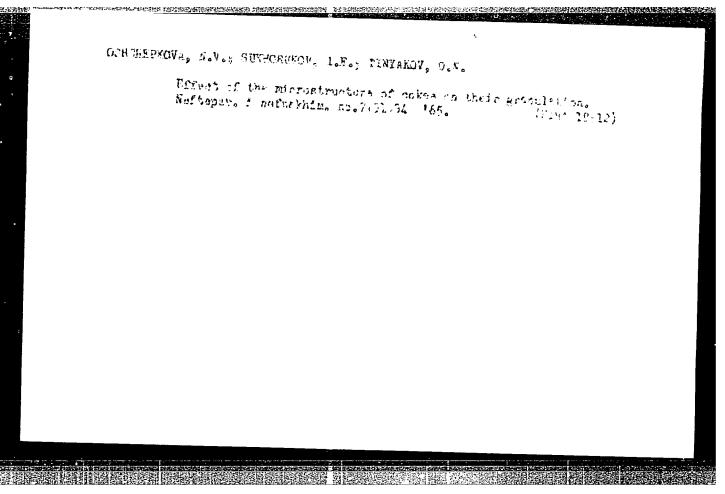
Deformation of gas bubbles in a liquid in an electric field.

Izv.vys.ucheb.zzv.; energ. 8 no.4:11-18 Ap 165.

(MIRA 18:4)

1. Belorusskiy politekhnicheskiy institut. Predstavlena kafedroy tekhniki vysokikh napryazheniy.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"



L 36810-66 EWP(k)/EWT(m), ACC NR: AP6024260	SOURCE CODE: UR/0128/6	6/000/007/0010/0011
AUTHOR: Mirzoyan, G. S. (Engineer); Tinyakov, V. (Candidata	'yalov, V. F.
ORG: none		7.
TITLE: Centrifugal castin	\mathfrak{g} of thin-wall steel shells	36 B
SOURCE: Liteynove project	deture no 7 1000 10 10	
ABSTRACT: The possibility diameter, 15—20 mm wall-ti	lloy steel chromium containing steel, teel, tungsten containing steel, vanaditing, centrifugal casting/30KhSNVFA steel of manufacturing 30KhSNVFA steel tube nickness, and up to 400 mm long, has beasic induction furnace and one, has beasic induction furnace.	eel shells 520 mm in
cooled mold at a speed of a in 50—30 sec with a metal have longitudinal cracks	400 rpm. Shells with a wall thickness solidification rate of 0.50—0.90 mm/	30—1540C in a water of about 28 mm, cas sec, were found to
to 16 sechand the solidificannealed at 1100C for 4 hr	cation rate was increased to 1.10—1.70 furnace cooled to 400C, and then air tile strength of 79—89 kg/mm ² , a yield	ing time was reduced O mm/sec. Castings.
Card 1/2	UDC: 621,74,042:669,141	25
		1.6-J

nonmetallic i	microstructure con nclusions. The she	sisting of lamella	r perlite and sor	bité withour	ہُن
in diameter w	ith a wall thicknes	s of 5 mm. Orig.	art, has: 3 figu	to tubes 500	mm bloc
SUB CODE: 13,	/ SUBM DATE: none	/ ORIG REF: 001/	ATD PRESS: ムカ	29	[AZ]
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KCLKER, I.I.; TINYAKOV, Yu.G. (Moskva)

中国中国的政治,但是自己的国际的国际,但是是国际政治的国际的政治,但是国际政治的国际政治,

Immunomorphologica' study of the cytotoxic effect of antirenal antibodies in Masigi nephritis. Arkh. pat. 27 no.1:32-35 165.

(MIRA 18:4)

1. Institut khirurgii imeni Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR A.A.Vishnevskiy) AMN SSSR i leteratoriya Fatologicheskoy anatomii (zav. - prof. A.M. Vikhert) Instituta terapii (dir. - deystvitel nyy chlen AMN SSSR A.L. Mynamikov) AMN SSSR.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

TIMYAKOV, Yu.G. (Moskva)

Organization of fibrin. Arkh. pat. no.12:54-61 162 (MIRA 18:1)

1. Iz kafedry patologicheskoy anatomii II Moskovskogo meditsinskogo instituta imeni N.I. Firogova (zav. - deystvitel'nyy chlen AMN SSSR I.V. Davydovskiy) i laboratorii patologicheskoy anatomii (zav. - doktor med. nauk A.M. Vikhert) Instituta terapii AMN SSSR.

TINYAKOV, G.G.; TIN.AKOV, Yu.G.

Origin of cancer in the light of proliferative variability of normal cells. Dokl. AN SSSR 141 no.4:998-1001 D '61. (MIRA 14:11)

1. Moskovskiy tekhnologicheckiy institut myasnoy i molochnoy promyshlennosti i Institut terapii Akademii meditsinskikh nauk SSSR. Predstavleno akademikom I.I. Shmal'gauzenom. (CANCER)

TINYAKOV, C.G.; TINYAKOV, Yu.G.

Spontaneous chromosome mutations under the second sec

Spontaneous chromosome mutations under normal and pathological conditions. Dokl.AN SSSR 134 no.1:187-190 S '60.

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti. Predstavleno akad. I.I.Shmal'gauzenom. (Chromosomes)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

THE PROPERTY SHOWS BELLEVIANCE BELLEVIANCE BY THE SHOWS BELLEVIANCE BY THE SHOWS BY

ZORIN, Yevgeniy Timofeyevich; TINYAKOV, Yuriy Mikhaylovich;
ROMADIN, A.G., red.; LIFEROVA, A.I., red.izd-va; FOMICHEV,
P.M., tekhm. red.

[Assembly, operation and repair of bakery equipment] Montazh,
ekspluatatsiia i remont khlebopekarnogo oborudovaniia, Moskva, Izd-vo TSentrosoiuza, 1963. 251 p. (MIRA 16:12)
(Bakeries-Equipment and supplies)

TINYAKOVA, N.I.

Pharmacology of sweet William, Trudy Oren, otd. Vses. fizioll. ob-va no.2:142-146:60, (MIRA 16:8)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

KUTSEROK, B.Ye.; TINYAKOVA, Ye.I.; DOLGOPLOSK, B.A.

Interaction between isopropylbenzene hydroperoxide and rongalite, and the use of this reaction for initiating polymerization in acid media. Vysokom.soed. 1 no.12:1830-1839 D '59.

(MIRA 13:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka.

(Polymerization) (Sodium formaldehyde sulfoxylate)
(Hydroperoxides)

ANGHELESCU, V.; TIRNOVEANU, G.; TRIFAN, C.; CIORANU, C.; VOICU, A.

Contributions to the study of staphylococcal gastro-enteritis in children, Rumanian M. Rev. 14 no.1:58-60 Ja-Mr '60.

1. Hospital for Children in Galati (D. sctor: Dr. Virgil Anghelescu).

(GASTROENTERITIS in infancy & childhood)

(STAPHYLOCOCCAL INFECTIONS in infancy & childhood)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

1201112 : UESH U.T.MGRY : Farm Animals. Cattle. :50. 30%. : RLB151., No. 3, 195), No. 11985 AUTHOR : Tinyakov, G.G. : Institute of Animal Morphology. AS USSR I. F. : Embryonic Development of the Mammary Gland LITTLE in Cattle ORIG. PUB. : Tr. In-ta morfol. zhivotnykh AN SSSR, vyp. 22 116-131 ADSERAGI : The successive development is described of the marmary gland in cattle from the embryonic age of one month to the parturition of calves of both sexes. It is noted that the fundamental differentiation of the gland's epithelial rudiment which forms the epithelial infundibulum, the cervix of the infundibulum, the basic rudimental cistern, the preudder canel and rudimentary cistern of the udder is accomplished when the fetus reaches the age Calb: 1/3 18

COUNTRACT Hash CATEGORY ABS. JOUR. RZhBiol., No. 1959, No. 机组合区 fil. TTLE DRIG. PUB. 12STEACT of 4 months. The marmary gland's earliest clement is represented by the mammilary canal , which is formed by the wells of the epithelial infundibulum which originates in turn in the epithelial cones of 2-month old embryos. At the same time the establishment of the udder's fatty tissue also takes place in the form of fatty islats which consequently undergo rapialy progressing growth in terms of quantity and quality. The (organion mechanism of the udder's lymph vessel is lard: 2/3

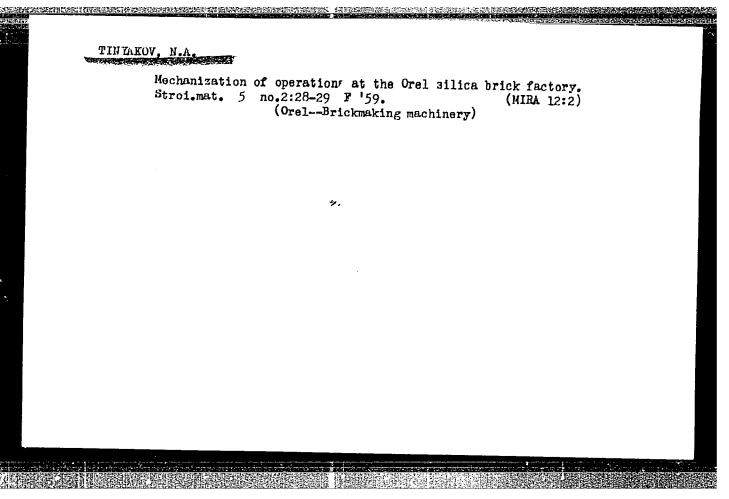
JAYLOONY 'NBS. JOYR.	: RZhBiol., No. 1959, No.
AUTHOR LAST. FITLE	: : :
DRIG. PUB.	:
ABSTRACT	their valves develop, consisting of the formation of the vessel's inner endothelial layer by means of fiberblasts being adsorbed at are apparently greatly flattered.
	are apparently greatly flattened and tightly bound to each other A. D. Musin
: Off.AC	bound to each other A. D. Musin

TINYAKOV, N.A., dots.; RUMYANTSEV, Tu.G., inzh.

All-Union conference on groundings. Izv.vys.ucheb.zav.; energ. no.12:
118-120 D '58. (MIRA 12:3)

1. Belorusskiy politekhnicheskiy institut.
(Electric currents--Grounding)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"



RUTSKIY, A.I., kand.tekhn.neuk, zesluzhennyy deyetel' neuki i tekhniki BSSR;
ZAGOROVSKIT, Ye.N., inzh.; SLEPYAN, YA.YU., kend.tekhn.neuk; NOVASH,
V.I., kend.tekhn.neuk; TINYAKOV, N.A., kend.tekhn.neuk; KASHTANOV, F.,
red.; STEPANOVA, N., tekhn.red.

[Electricien's handbook] Spravochnoe posobie elektromontera.
Minsk, Gos.izd-vo BSSR, Red.neuchno-tekhn.lit-ry, 1960. 360 p.

(HIRA 13:9)

(Electricity-Handbooks, manuals, etc.)

RUTSKIY, A.I.; LEONKOV, A.M.; GEYLER, L.B.; SLEPYAN, Ya.Yu.; MOSEYEV, I.V.;

SOBOLEV, A.I.; TINYAKOV, N.A.; VOLKOV, N.P.; BOTVINNIK, Ya.Ye.;

BARABANOV, M.Ye.; BRAZGOVKA, V.A.; PECKLIS, G.B.; KUZOVNIKOVA,

Ye.A.; KUZ'MIN, Yu.P.; SHIMKO, N.I.; PALLADIY, N.L.; KHUTSKIY, G.I.

G.I. Dobkin; obituary. Izv. vys. ucheb. zav.; energ. no.4:128 Ap. j.d.

(Dobkin, Grigorii Izrailevich, 1892-1958)

(MIRA 11:6)

TINYAKOV, N.I., inzh.

Standard electric switchbox. Nov.tekh. i pered. op. v stroi.
19 no.7:27 Jl '57. (MIRA 10:10)

(Electric switchgear)

SIDOROV, V.A., inzhoner; TINYAKOV, N.I., tekhnik.

Granite and ceramic facing of building facades in winter using electric heating; construction experience on the Moscow State University buildings. Gor.khoz.Mosk. 28 no.1:35-37 Ja '54.

(MIRA 7:2)

(Bricklaying--Cold weather conditions)

VIKHERT, A.M.; SEREBROVSKAYA, Yu.A.; TINYAKOV, Yu.G. (Moskva)

Renin and the juxtaglomerular apparatus in experimental nephritis. Arkh.pat. no.2:17-24 163 (MIRA 16:11)

1. Iz Instituta terapii ANN SSSR (dir. - deystvitel nyy chlen ANN SSSR prof. A.L. Myasnikov.)

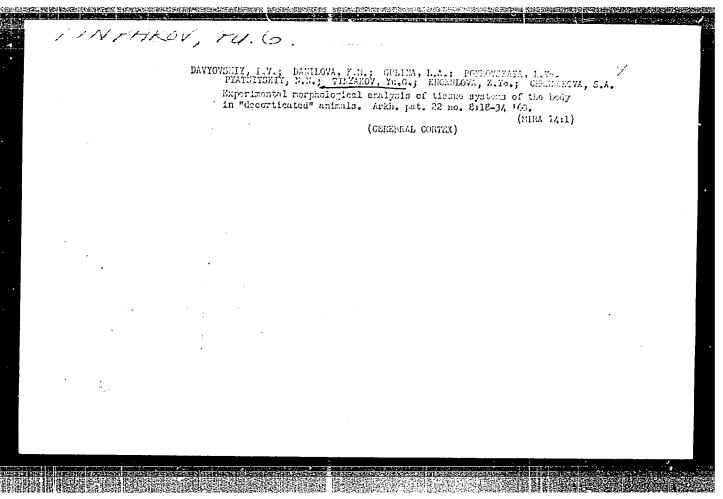
APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

TINYAKOV, Yu.G. (Moskva)

Microtome. Arkh. pat. 26 no.2:36 '64.

Cryostat. Ibld.:26.37 (MIRA 17:8)

1. Institut terapii AMN SSSR.



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	A LIVE TO THE COURSE OF THE COURSE OF THE COLORS OF THE CO
	Dissertation: "Investigation of the Polymerization of 2-Chlorobutadiene- 1, 3 in Solutions." Moscow Inst of Fine Chemical Technology imeni M. V. Lomonosov, 24 Mar 47.
	SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)
the state	

TINYAKOVA NE. I

USSR/Organic Chemistry - Theoretical and General Questions on Organic Chemistry,

E-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61379

Author: Tinyakova, Ye. I., Dolgoplosk, B. A., Tikhomolova, M. P.

Institution: None

Title: Reactions of Free Radicals in Solutions. III. Study of the Re-

actions of Free Radicals with Sulfur

Original

Periodical: Zh. obshch. khimii, 1955, 25, No 7, 1387-1394

Abstract: A study of the reactions of methyl, ethyl, isopropyl and allyl free

radicals with S and polysulfides. As a source of free radicals use was made of alkyl phenyltriazenes and azobenzene (mechanism of reaction, see communication II, Referat Zhur - Khimiya, 1955, 40009). As solvent was chosen isopropylbenzene (I) in order to evaluate the competing reactions of free radicals with S and with the solvent. A solution of 3.2 mol % triazene and S (6-8 mol per 1 mol triazene) in I was heated at 112° until evolution of gas ceased. It is shown

Card 1/3

USSR/Organic Chemistry - Theoretical and General Questions on Organic Chemistry,

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61379

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Abstract: that free radicals are almost completely taken up by S with the formation of alkyl polysulfides which are the primary products of the reaction and do not depend on the presence of by-products of the reaction, namely amines, in the reaction medium. The abovestated radicals differ greatly by their activity in the reaction of removal of H from I and differ but little in the reaction with S due to the lower energy of activation of this reaction. On reaction of allyl radical with S are formed diallylpolysulfides with a low yield which is explained by the instability of these products. On interaction of azobenzyl /sic/ with S (1:13.7) H2S is formed with a yield of 81-87% and benzaldazine (II), yield 51%. Formation of H2S and II is the result of exidation of azabenzyl by S. The author assumes that such reactions of dehydrogenation are also possible in rubbers containing diallyl groupings. It is shown that on section of methyl radical with S in the presence of mercaptans (or H2S) there takes place removal of hydrogen from mercaptan (or H2S) with formation of hydrocarbons and the radicals RS (or SH). Studied is the reaction of methyl radical with

Card 2/3

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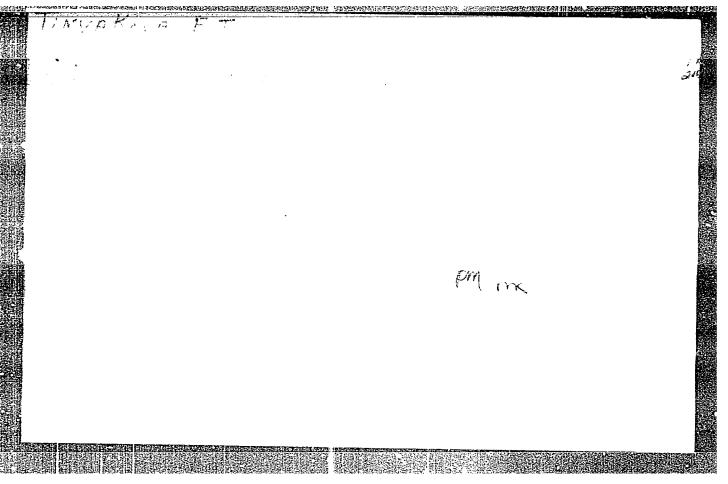
USSR/Organic Chemistry - Theoretical and General Questions on Organic Chemistry, E-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61379

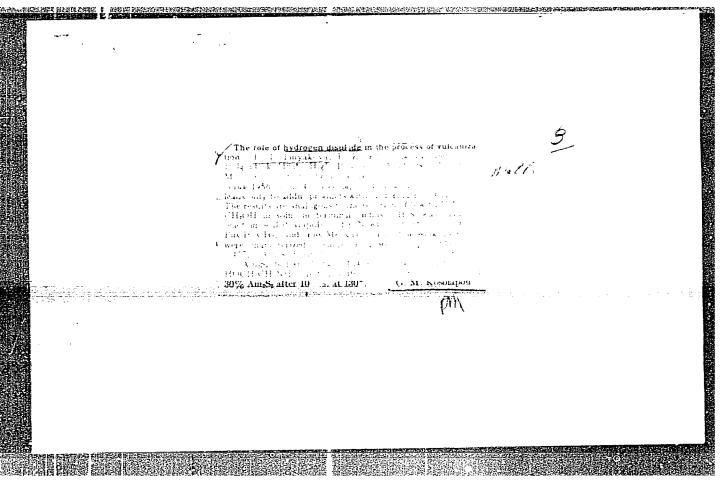
Abstract: polysulfides (dilauryltetrasulfide and dibenzyltetrasulfide), which confirmed the fact that the polysulfides formed in the course of the reaction react with free radicals the same as elemental S. It is shown on the example of dimethylpolysulfide using S35 that under these conditions are formed molecules of dimethylpolysulfide containing on the average 6 atoms of sulfur.

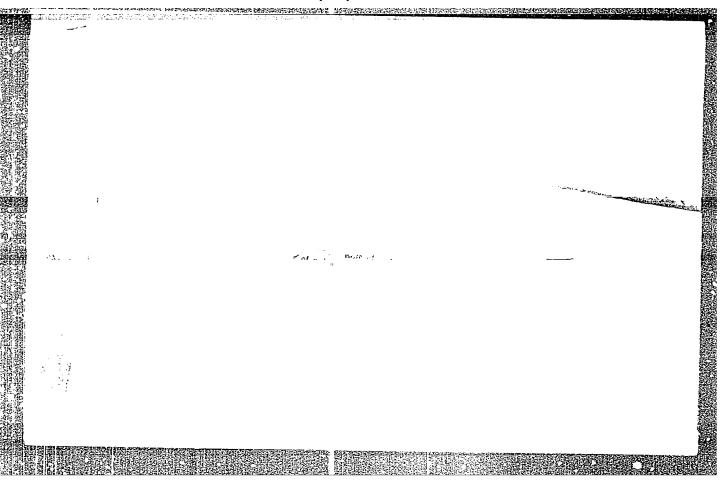
Card 3/3

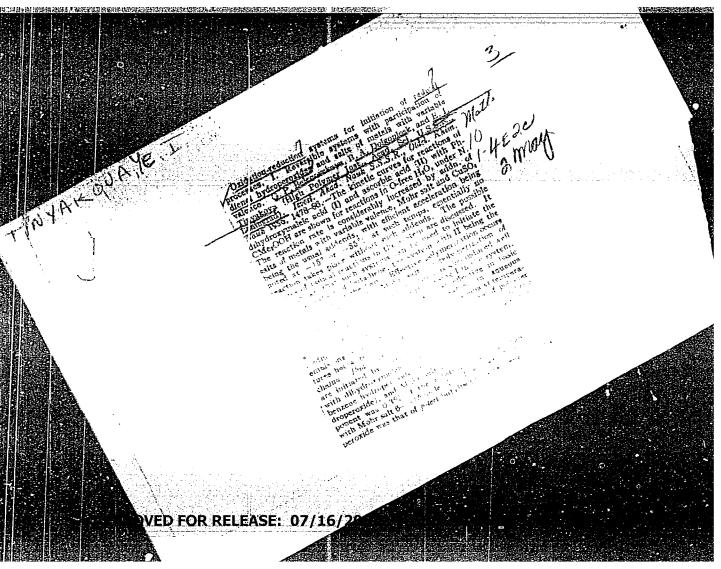
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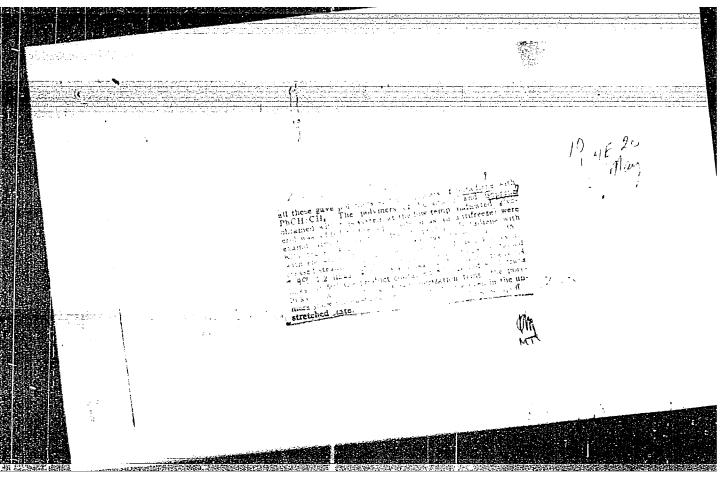


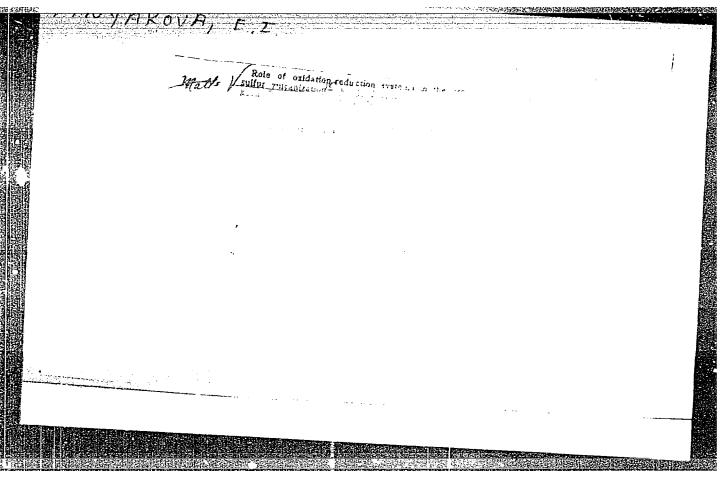




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	; ,	Oridation-reduction systems for initiation of radical processes. I Reversible systems with participation of diend hydropercrider and salts of metals with variable valence of Deletratishment is discontinuous and high Polymer limit.		
		Mark 1956, 1473-80 The kinetonia and Administration of the Adminis	11)	
	i	salts of metals with variable with value of the reserving of the usual of the reserving t	4560	
		ver an entropy of the range but the range of the range but the range of the range o		
		at pH is it, agte not rate at pit of many I in the system with Cu salts as cutainsts being most effective in base emulsions under influence of polymerization in aqueous tures below zero and a study of microstractions at lempers chains. Ibid. 1957, 85-9 — Polymerizations of holymer are initiated by systems of services.		
	Į.,	with dihydroxymalcle seld, PhCMetOOH (or discovery) benzene hydroperoxide or petri-bitylisoprepylbenzene hy- droperoxide), and Mohr mit components. The acid cons- ponent was 0.3% of the substrate, hydroperoxide 0.6%.		
		with Mohr sait 0-316 mole substate, hydrogenoside 0.65 or peroxide was that of p-tert-butylisopropylisozene, although	1/2	
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TINYAROVA, E.Y., DODOPLAJE, D. A., old MUYER, V. F.

"Redon systems in polyminization," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 20 Jan-2 Feb 57, Noscow, Polymers, Research Inst.

B-3,004,395

TIMYAKOVA, E. Y., DOLGOPLASK, B. A., REYKH, V. P., KALAHU, A. J.

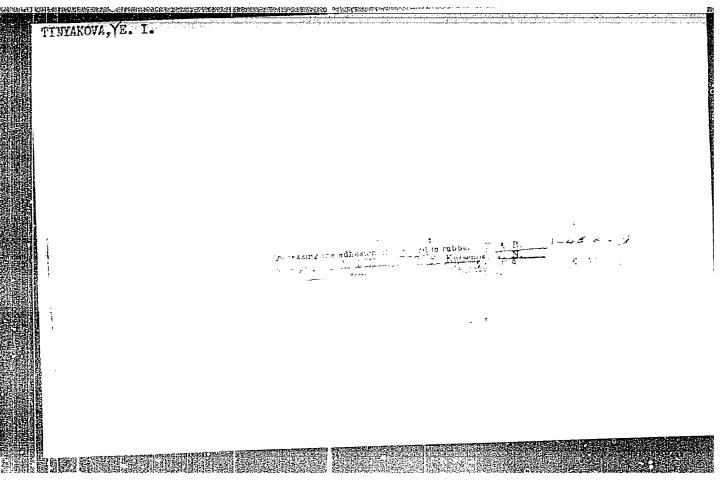
"Synthesis of acrylic rubbers and their properties," a paper presented at the 9thpongress on the Chemistry and Physics of High Polymers, 28 Jan - 2 Feb 57, Moscow, Rubber Research Inst.

B-3,084,395

TIHYAKOVA, E.Y., BELOHOVSKAYA, G.P., and DOLGOPLASK, B. A.

"Low temperature polymerization Initiated by di-enols and properties of the resulting polymers," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Polymer Research Inst.

B-3,084,395



AUTHORS:

Belonovskaya, G. P.; Dolgoplosk, B. A.; Tinyakova, Ye. I. 62-1-9/21

TITLE:

Oxidation-Reduction Systems for the Initiation of Radical Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 00 and Study of the Microstructure of the Polymeric Chain (Okislitel novosstanovitel'ny pe sistemy dlya initsiirovaniya radikal'nykh protsessov. Soobshcheniye 2. Initsiirovaniye polimerizatsii v vodnykh emul siyakh

pod vlivaniyem obratimykh sistem pri temperature nizhe 0° i izucheniye

mikrostruktury polimernoy tsepi).

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957,

No. 1, pp. 65-69 (U.S.S.R.)

ABSTRACT:

The purpose of this report is to study the applicability of an oxidation-reduction system, consisting of dienols, hydrogen peroxide of isopropylbenzene and very small amount of ferric salt or cupric salt, for the initiation of polymerization in an aqueous emulsion at very low temperatures for the purpose of establishing the relation between the

Card 1/3

是是我们就是否的的女子们是在国际的的政策和他的特别,我们是是他们的政策,但是他们就是他们,也不是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

62-1-9/21.

Oxidation-Reduction Systems for the Initiation of Radical Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 0° and Study of the Microstructure of the Polymeric Chain

polymerization temperature and the microstructure of the polymeric chain. It was found that the application of such system is perfectly possible for polymerization initiation at temperatures ranging down to -47°. It is evident from results obtained that the system containing dioxymaleic acid and ferric salt is the most active one but only in the presence of hydrogen peroxide of r-tertiary-butyl-isopropyl benzene.

The authors obtained data which established a close relation between the polymerization temperature of Divinyl and isoprene and the microstructure of the polymeric chain. A reduction in polymerization temperature displaces the equilibrium toward a more stable trans-form. Divnyl polymers at a reduced polymerization temperature show a positive tendency toward crystallization.

Card 2/3

Tables, graphs, illustrations. There are ll references, of which 2 are Slavic.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

Oxidation-Reduction Systems for the Initiation of Radial Processes. Part 2. Initiation of Polymerization in Aqueous Emulsions under the effect of Reversible Systems at a Temperature of below 00 and Study of the Microstructure of the Polymeric Chain

ASSOCIATION:

Academy of Sciences of the USSR, Institute of High Molecular

PRESENTED BY:

SUBMITTED:

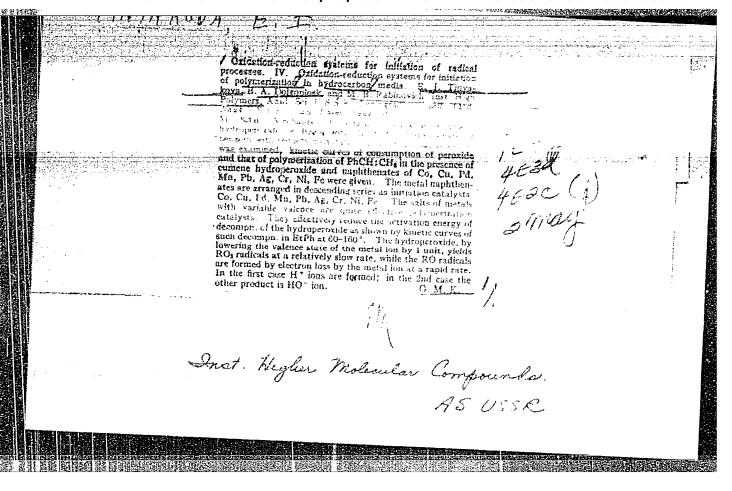
December 13, 1955

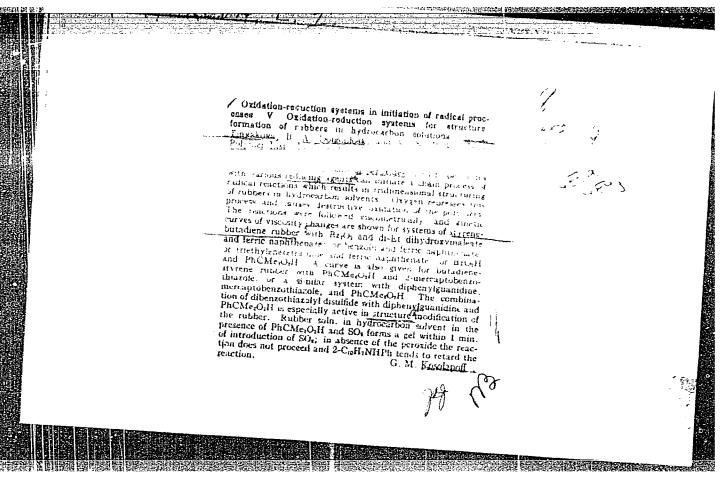
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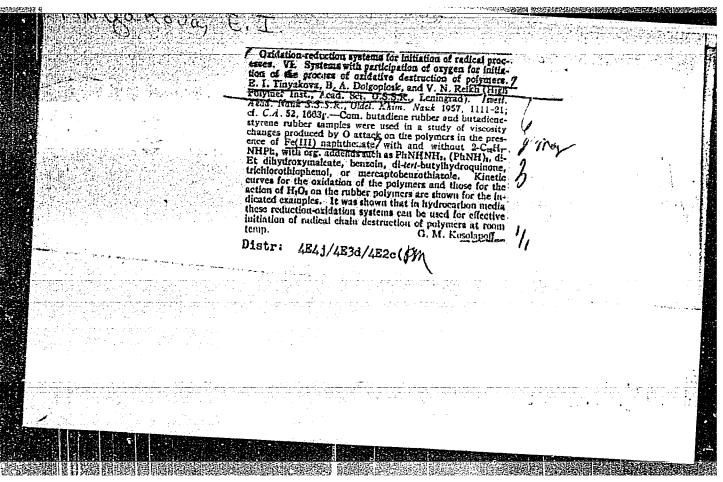
Library of Congress

Card 3/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"







DOLGOPLOSK, B.A., professor; TINYAKOVA, Ye.I., kandidat tekhnicheskikh nauk.

Basic types of oxidation-reduction systems for the initiation of radical processes in aqueous and hydrocarbon media and the mechanism of their reaction. Khim. nauka i prom. 2 no.3:280-298 '57.

(Uxidation-reduction reaction) (MIRA 10:8)

(Polymerization) (Radicals (Chemistry))

TINGAKOVA, YT. I.

TINYAKOVA, Ye.I.; DOLGOPLOSK, B.A.; REYKH, V.N.

Redox systems for initiating radical processes. Report No.6: Systems with participation of oxygen for initiating the process of oxidation destruction of polymers. Izv. AN SSSR. Otd. khim. nauk no.9:1111-1121 S '57. (MIRA 10:12)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (Oxidation-Reduction reaction) (Polymers)

。 1. 1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年

DOLGOPIOSK, B.A.; TINYAKOVA, Ye.I.; REYKH, V.N.; ZHURAVLEVA, T.G.;

RELONOVSKAYA, G.P.

Carboxyl-containing rubbers. Part 1: Synthesis of carboxylcontaining rubbers and the study of the structure of polymers and
vulcanized rubber. Kauch. i rez. 16 no.3:11-14 Mr '57.

(MIRA 12:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo
Kauchuka.

(Rubber, Synthetic) (Carboxyl group) (Polymers)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755810008-6"

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DOIGOPLOSK, B.A.; REYKH, V.N.; TINYAKOVA, Ye.I.; KALAUS, A.Ye.;

KORYUSHENKO, Z.A.; SLADKEVICH, Ye.G.

Carboxyl-containing rubbers. Report no. 2: Basic qualities of vulcanizates from carboxyl-containing rubbers. Kauch, i rez.

16 no.6:1-6 Je '57.

(MIRA 10:10)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo

(Rubber, Synthetic)

(Vulcanization)
```

MINYAKOVA, Ye. I.

AUTHORS:

Dolgoplosk, B. A., Terusalimskiy, B. L., (2-50-4-13/30

TITLE:

PETERNAL

Generation of Free Radicals in Solutions and Their Reactions in Model Systems (Generirovaniye svobodnykh radikalov v restvorakh i ikh reaktsii v model'nykh sistemakh). Report of the Conference on Shemical Sciences of the AS USSR on October 30, 1957 (Doklad SSSR, 30 oktyabrya 1957)

PERIODICAL:

Izvestiya Akademii Mauk SSSR, Otdelenje Khimicheskikh Mauk, 1958, Mr 4, pp. 469-481 (USSR)

ABSTRACT:

The present paper gives the final results of the work of the authors with - in the field of oxidation - and reduction initiation of radical processes and the insecretation of a number of reactions of free radicals. Corresponding to their action the oxidation and reduction systems are given in 3 groups (Ref. 1): To the place between the reducing agent and the oxidizing agent

Card 1/3

22-5. -4-15/32

THE STATE OF THE SECRETARIAN SECRETARIAN DEPORTS AND THE SECRETARIAN ASSESSMENT OF THE SECRETARIAN DEPORTS AND THE SECRETARIANCE AND THE SECRETARIAN DEPORTS AND THE SECRETARIANCE AND THE SECRETARIAN

Generation of Free Radicals in Solutions and Their Reactions in Model Systems. Report of the Conference on Chemical Spishoes of the AS USSR on October 30, 1957

by forming a radical (see formulae 1,2,3). The detailed description of the first type (s, stem lith peroxides) follows. Also systems in which also metal salts with varying valence take part (as exidizing agents) also belong here. The systems of the second kind are of interest in theoretical and practical respects (second type). Among them is also a system which acts with hy= droquinone taking part. This system was utilized industrially (initiation of polymerizations in emalsions) There is still a number of other systems in which the reactions take part between the oxidizing agent and the reducing agent by formation of 2 radicals. Those systems belong to the third kind which have a participation of the diazoamino compounds. 2. Systems with participation of ethylenediamine and polyethylenepolyamine. 3. Systems with participation of sulfur and oxigen (as oxidizing agents). After classification of the systems according to their mechanisms the report coals with the different reactions of alkyl- and heteroradicals with various mo-

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62-58-4-13/32 Generation of Pree Andicals in Delations and Their Registions in of the Conference on Therical Sciences Report Model Systems. of the AS USGR on Getober 30, 1957

nomers and polymers on which occasion a break of the bonds C-H, C=C, C - C and S - S is formed. Finally the part played by the cell in the heat stable

lity of polymers was investigated.

There are 2 tables and 44 references, 40 of which are

Soviet.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute for High-Molecular Compounds, AS

ussr)

December 23, 1957 SUBMITTED:

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tions-Reactions 3. Free radicals-Solutions-Generation

Card 3/3

507/62-50-9-12/86 Tinyakova, Ye., I., Bogomol'nyy, Y.Ya., AUTHORS: Zhuravieva, P. G.

Reactions of the Triazenes With Dienols and Acid: i: An-TITLE:

hydrous Hydrocarbon Media (Reaktsii triamenov s digenol mi i kislotami v uglevodorodnykh bezvodnykh sredakh)

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1958, Nr 9, pp 1094 - 1098 (USSR) PERIODICAL:

It has already been found that the decomposition of alighaticaromatic triazenes in anhydrous media is accelerated ABSTRACT:

by the catalytic effect of dienols and acids or acidcontaining substances. The decomposition of triazenes can hydrocarbon also be definitely accelerated in anhydrous media in the presence of acids. This reaction is not a catalytic one, since esters form during the reaction (Refs 2,3). The authors were interested in the application of this reaction to the quantitative determination of carboxyl groups in organic compounds. They considered the investigation of the reaction between the triazenes

and dienols in anhydrous media of still greater im-

portance because of the possible use of his reaction Card 1/2

CIA-RDP86-00513R001755810008-6" APPROVED FOR RELEASE: 07/16/2001

507/62-58-9-13/26 Reactions of the Triazenes With Dienols and Acids in Anhydrous Hydrocarbon Media

in the alkylation or arylation of dienol groups. It was found that in anhydrous hydrocarbon media dioxymaleic acid and its diethyl ester and ascorbic acid accelerate the decomposition of the triazenes. The reaction is accompanied by the formation of nitrogen and the alkylation (or arylation) of the carboxyl and dienol groups. The authors found that the decomposition reaction of triagenes under the effect of acids can be used for the volumetric quantitative determination of carboxyl groups (especially in polymers) in anhydrous hydrocarbon media. There are 2 figures, 3 tables, and 8 references, 4 of which are Soviet.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High Molecular Compounds, AS USSR)

SUBMITTED:

January 30, 1957

card 2/2

CIA-RDP86-00513R001755810008-6" APPROVED FOR RELEASE: 07/16/2001

AUTHORS: Tinyakova, Ye. I., Knrennikova, Ye. K., SOV/79-28-12-24/41
Dolgoplosk, B. A.

TITLE:
On the Effective Mechanism of the Accelerators in the Process
of Sulfur Vulcanization (O mekhanizme deystviya uskoriteley
protsess: sernoy vulkanizatsii)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3269-3274 (USSR)

ABSTRACT: To explain the effective mechanism of the accelerators in the vulcanization it was necessary to investigate the composition of the products formed in the reaction with sulfur in various solvents, and to compare them to the composition of the description products of H₂S₂ in the same solvents. For this

reason, the reaction of monoethanol amine, ethylene diamine and fructose with sulfur in the pentenes-1 and -2, in cyclo-hexane, isoprene, A-methyl styrene, styrene, ethyl benzene, and in rubber solution at 130-160 was investigated. This process was characterized according to the formation of H₂S. In

the case of the reaction of monoethanol amine with sulfur in the pentenes-1 and -2 all main reaction products were separated

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On the Effective Mechanism of the Accelerators in the Process of Sulfur Vulcanization

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and characterized. In table 1 the data are mentioned which characterize the formation of H_2S in the reaction of sulfur with the vulcanization accelerators, as well as in the decomposition of H_2S_2 in various solvents. In table 2 the experimental results of the composition of the reaction products of sulfur with monoethanol amine in the solution of pentenes—1 of sulfur with monoethanol amine in the results of the experiand ...2 are mentioned together with the results of the purments on the decomposition of H_2S_2 , which are given for the purments on the decomposition of H_2S_2 , which are given for the purments on the decomposition of H_2S_2 , which are given for the purments on the decomposition of H_2S_2 , which are given for the purments on the decomposition of H_2S_2 , which are given for the purments of H_2S_2 .

pose of comparison. It was shown that the reaction of sulfur with various reducing agents which occur in the sulfur vulcanization as accelerators takes place by way of an intermediate ratio of H_2S_2 under the formation of S^* and S_2^* . Based on the stage of H_2S_2

investigation of the composition of the products formed in the reaction of sulfur with the vulcanization accelerators and in the decomposition of H_2S_2 in α and β -olefins, a more detailed the decomposition

information on the mechanism of the occurring sulfur formations in the vulcanization process is obtained, and the part is

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On the Effective Mechanism of the Accelerators in the Process of Sulfur Vulcanization

507/79-28-12-24/41

detected which is played by the accelerators therein. It was shown that the outer double bonds are much more reactive in the reaction with the radicals HS· and HS₂· than the inner

ones. At temperatures up to 130° the radicals HS. do not separate hydrogen from the aliphatic hydrocarbon solvents. There are 2 tables and 13 references, 8 of which are Soviet.

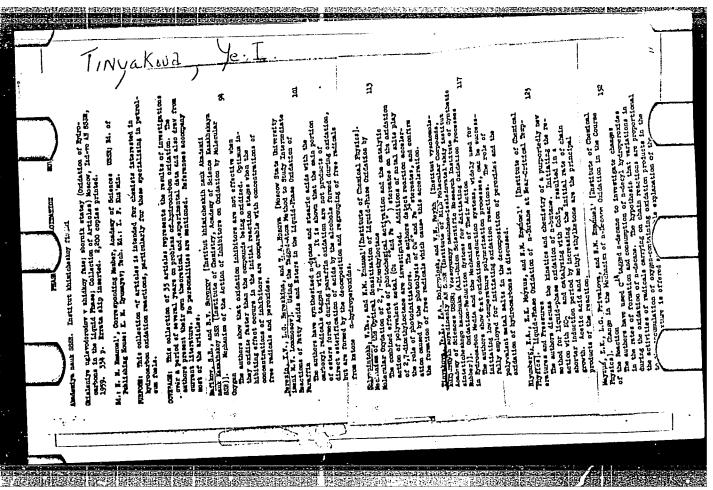
ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-Molecular Compounds, Academy of Sciences, USSR)

SUBMITTED:

November 10, 195?

Card 3/3



SOV/79-29-4-50/77 5(3) Tinyakova, Ye. I., Zhuravleva, T. G. AUTHORS: On the Decomposition Mechanism of Isopropylbenzene Hydrogen TITLE: Peroxide Under the Influence of Salts of Metals of Variable Valencies (O mekhanizme raspada gidroperekisi izopropilbenzola pod vliyaniyem soley metallov peremennoy valentnosti) Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1262-1269 PERIODICAL: (USSR) The study of the effect of these salts on the decomposition of ABSTRACT: hydrogen peroxides is of great importance on account of the role played by them in the oxidation, polymerization, and other radical processes. It is known that salts of this kind in their lower oxide- and oxide forms accelerate the decomposition of hydrogen peroxide catalytically. The decomposition of hydrogen peroxides in aqueous solutions below 50°, and in hydrocarbon solutions below 90-100° takes place only under the influence of ferrous salts, hydrogen peroxide and salts Fe2+ being consumed in equivalent quantities. In hydrocarbon solutions the catalytic splitting of hydrogen peroxide under the influence of small amounts of ferric salts takes place only at 100° and up, while the reaction takes place instantly even at Card 1/3

so7/79-29-4-50/77

On the Decomposition Mechanism of Isopropylbenzene Hydrogen Peroxide Under the Influence of Salts of Metals of Variable Valencies

 -70° if the ferrous salt is used (Ref 1). The decomposition of hydrogen peroxides is also accelerated by the salts of other metals, e.g. by the naphthenates of Co, Cu, Pd, Mn, Pb, Ag, Cr, Ni, and Fe; the activity of the metals drops in that series from Co to Fe. For the mechanism of the effect of these metals the following scheme has been suggested (Ref 1):

ROOH + $Me^n \rightarrow RO^{\bullet} + Me^{n+1} + HO^{-}$

ROOH + Meⁿ⁺¹ \longrightarrow ROO• + Meⁿ + H⁺ (2) Hydrogen peroxide thus plays the part alternatively of an oxidizing and reducing agent. This has, however, not yet been proved by experiments. In the present paper the experimental data regarding the decomposition of isopropylbenzene hydrogen peroxide in the presence of the naphthenates of the metals Mn, Cu, Co, and Pd in various solvents are given. The results confirm the validity of the suggested scheme. Tables and figures illustrate these results. There are 3 figures, 2 tables, and 17 references, 4 of which are Soviet.

Card 2/3

CIA-RDP86-00513R001755810008-6" **APPROVED FOR RELEASE: 07/16/2001**

sov/79-29-4-50/77

On the Decomposition Mechanism of Isopropylbenzene Hydrogen Peroxide Unier the Influence of Salts of Metals of Variable Valencies

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High Molecular Weight Compounds of the

Academy of Sciences USSR)

March 3, 1958 SUBMITTED:

Card 3/3

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